

Anamosa High School

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Inspire Learn Lead

2017-2018 Program of Studies

Anamosa High School

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help parents and students plan a sequence of classes that fulfill graduation requirements and prepare students for further education, additional training, or immediate jobs. The classes offered at Anamosa High are grouped by departments which are listed alphabetically. All classes are open to every student as long as prerequisites are fulfilled. Suggestions for appropriate class choices are given in each department’s introduction. The final choice of classes should be based on requirements, student needs, and student interests. You are encouraged to read the information on the registration process very carefully.

This Handbook will...

## Welcome to Anamosa High School!

We are student-centered and future-focused. We believe each student is unique and it is our responsibility to provide the best education possible in an environment that is challenging, yet caring and inviting. We are very proud of our students and faculty. We look forward to sharing our school and successes with you.

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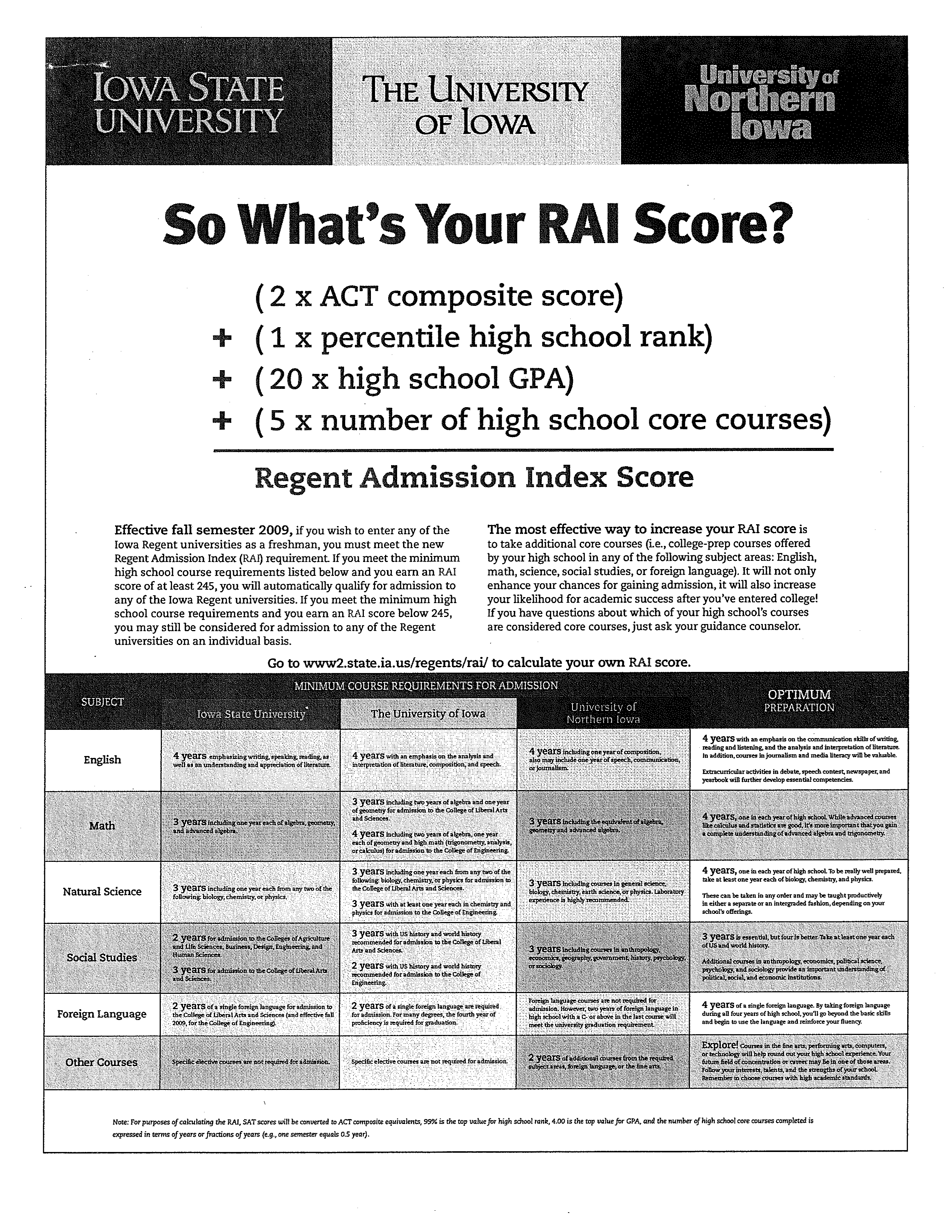
##### **Graduation Requirements:**

##### To graduate from Anamosa High School, a student must earn a minimum of 56 credits. This program fulfills the requirements of the State of Iowa. To receive a diploma, the student must also have attended Anamosa High School for their final semester of their academic career.

##### ANAMOSA HIGH DIPLOMA REQUIREMENTS – 56 CREDITS

|  |  |  |  |
| --- | --- | --- | --- |
| Anamosa High Courses | | Minimum Requirements | Credits |
| English | | 4 years | 8 credits |
| Math | | 3 years | 6 credits |
| Science | | 3 years | 6 credits |
| Social Studies | | 3 years | 6 credits |
| Physical Education | | 4 Semesters | 4 credits |
| Health | | 1 Semester | 1 credit |
| Personal Finance | | 1 Semester | 1 credit |
| Advisory | | 4 years | 1 credit |
| Electives | 4 years | | Minimum 24 credits |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | FOUR YEAR PLAN WORKSHEET | | | | |  |  |
| 9th |  | Fall |  | Credit |  | Spring |  | Credit |
|  | Reading Lab / English 9/ English 9 H | | | 1 | Reading Lab / English 9/ English 9 H | | | 1 |
|  | Math |  |  | 1 | Math |  |  | 1 |
|  | Physical Science |  |  | 1 | Physical Science |  |  | 1 |
|  | World History |  |  | 1 | World History |  |  | 1 |
|  | Health & Development | |  | 1 | Health & Development | |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  |  |  | **Total Credits** |  |  |  | **Total Credits** |  |
|  |  |  |  |  |  |  |  |  |
| 10th |  | Fall |  | Credit |  | Spring |  | Credit |
|  | Reading Lab / English 10/ English 10 H | | | 1 | Reading Lab / English 10/ English 10 H | | | 1 |
|  | Math |  |  | 1 | Math |  |  | 1 |
|  | Biology |  |  | 1 | Biology |  |  | 1 |
|  | US History |  |  | 1 | US History |  |  | 1 |
|  | Physical Education | |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  |  |  | **Total Credits** |  |  |  | **Total Credits** |  |
|  |  |  |  |  |  |  |  |  |
| 11th |  | Fall |  | Credit |  | Spring |  | Credit |
|  | Reading Lab / English 11 | |  | 1 | Reading Lab / English 11 | |  | 1 |
|  | Math |  |  | 1 | Math |  |  | 1 |
|  | Science |  |  | 1 | Science |  |  | 1 |
|  | Government |  |  | 1 | Personal Finance |  |  | 1 |
|  | Physical Education | |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  |  |  | **Total Credits** |  |  |  | **Total Credits** |  |
|  |  |  |  |  |  |  |  |  |
| 12th |  | Fall |  | Credit |  | Spring |  | Credit |
|  | College Prep Writing / Senior Seminar | | | 1 | College Prep Writing / Senior Seminar | | | 1 |
|  | Math |  |  | 1 | Math |  |  | 1 |
|  | Science |  |  | 1 | Science |  |  | 1 |
|  | Economics |  |  | 1 | Elective |  |  | 1 |
|  | Physical Education | |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  | Elective |  |  | 1 | Elective |  |  | 1 |
|  |  |  | **Total Credits** |  |  |  | **Total Credits** |  |
|  |  |  |  |  |  |  |  |  |
| \*PE is required on semester per school year and will be scheduled where it fits best. Students should not register for more than one PE | | | | | | | | |
| course unless it is necessary to make-up a previously failed PE class. | | | | | |  |  |  |



**Specific Requirements**

1. A minimum of 8 credits of English is required for graduation.
2. The social studies requirement includes one year of World History, one year of U.S. History, one semester of Government, and one semester of Economics.
3. The physical education requirement requires the student to be registered in PE one semester each year of attendance. Medical Waiver – The requirement may be waived for those students with a doctor’s medical

excuse filed in the Health Office. This waiver must be filed annually.

1. The State of Iowa health mandate requires the student to be registered in health for one semester unless a parent waiver request is approved

**Grade Point Average (GPA)**

GPA is one of the most important records maintained at Anamosa High School. The student’s cumulative GPA is recalculated at the end of each semester, using all the courses that have been completed. Anamosa uses a 4-point system. GPA points are calculated by converting the letter grades:

A+ = 4.33 C+ = 2.33

A = 4.0 C = 2

A- =3.67 C- = 1.67

B+ = 3.33 D+ = 1.33

B = 3.0 D = 1

B- = 2.67 D- = .67

F = 0

Anamosa High School does not weigh grades except for AP courses that are on a 5-point Scale.

**Credits**

The school year is on a semester pattern. Students may not sign up for only one semester of a full year class unless they are repeating due to failure.

**Course Load**

All students are required to take a minimum of eight courses each semester. All students are required to

carry the minimum class load to be considered full-time students in good standing at Anamosa. Students are required to demonstrate a minimum level of proficiency prior to enrolling in advanced level courses.

**Schedule Adjustments**

All schedule changes must be made prior to the start of the semester. Students are not allowed to change their schedules unless a special circumstance exists. Students may drop/add courses for the following reasons: to correct deficiencies, to correct an error in placement or obvious errors in scheduling, to assure graduation credits and/or teacher recommendation.

**Withdrawal From a Course**

Students are encouraged to complete the courses they start; however, in the event a student wishes to withdraw from a course, the following guidelines will be used. A student may withdraw from the course with parent permission. The transcript will reflect an “F” (Failing) grade. Student will be assigned to another valuable course.

**Alternative Education**

Students at risk of withdrawing from high school or those far behind in credits may be considered for a referral to the Alternative Education. The alternative high school’s classes may not be used to accelerate the date of graduation.

**Course Level Changes**

1. All level changes requests must be made by the 15th day of each semester. All requests made after this time must have administrative approval.
2. The request to change will reflect input from a counselor, course instructor, and must have parent approval.
3. The student will be moved to a section meeting at the same period as the course dropped unless the section is filled or there is no section at that time. Capacity levels of classes will not be exceeded to grant the request.
4. The student’s grade-in-progress will be transferred to the new class.

**Early Graduation**

Early graduation is not encouraged because it generally provides only a minimum program; however, there are circumstances under which it is possible. Arrangements must be made through the counseling office. Students must submit a proposal for early graduation by the third Monday of October for Board approval. The proposal should be submitted to the Counseling Office. This proposal shall contain a completed parent consent form and a letter to the principal stating why the student wishes to graduate early.

**Credit Recovery**

If students are behind in credits, they may elect or be referred to take courses through an on-line credit recovery program, called Edgenuity.

**Special Programs**

Special programs are offered to meet the individual needs of students and include the full continuum of supports and services. Participation requires referral and staffing procedure. Support services listed below are available every semester and students receive one credit per semester.

High School Requirements

to a post-high school career. In addition to academies, also available are college and high school “companion” courses. Transportation to and from the regional center is provided and students must ride our transportation unless administrative approval has been granted.

**PROJECT LEAD THE WAY (PLTW):** PLTW Pathway to Engineering (PTE) program is a sequence of courses that follows a proven hands-on, real world problem solving approach to learning. Students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical thinking and problem-solving skills. They explore aerodynamics, astronautics and space life sciences. Students apply biological and engineering concepts related to biomechanics. They design, test and actually construct circuits and devices such as smart phones and tablets.

Students who enroll in any of the PLTW courses will receive high school and college credit from Kirkwood. The grade earned in this course will be reflected on the student’s official Kirkwood transcript. In addition, students who average 85% both semesters pass the final exam at 70% may be eligible to receive college credit at your selected four year colleges and universities.

More information about specific offerings can be found in the Project Lead The Way course listings. Foundation Courses include Introduction to Engineering Design and Principles of Engineering.

Elective courses include Civil Engineering and Architecture.

**Dual Credit Options**

The Dual Credit Program gives motivated, eligible high school students the opportunity to get a “jump start” on college by earning college credit before attending on a full-time basis. Options include Post-Secondary Enrollment Options (PSEO), Kirkwood Academies, Project Lead the Way (PLTW) and AP courses. \*A course assessment or final exam may be required to receive college credit.

**POST-SECONDARY ENROLLMENT OPTION** (PSEO): Anamosa High School students have the opportunity to take approved courses at Kirkwood Community College under the state’s Post-Secondary Enrollment Options Act, if they meet certain requirements. (Students are not limited to Kirkwood)

The intention is to provide a wider variety of options by enabling students to enroll part time in approved courses in eligible post-secondary institutions. This includes courses in mathematics, social studies, humanities, and vocational technical education. Students who successfully complete college courses may earn both high school and college credit.

Interested students should contact the counseling office regarding the state guidelines.

\*Note: The grade earned in each completed course becomes part of the student’s cumulative GPA at Iowa or Kirkwood. Students receive a high school credit.

**Kirkwood Regional Center**

The Kirkwood Regional Center at Monticello offers junior and seniors from all Jones county school districts the chance to earn both college and high school credit in career academies in a state-of-the-art new facility. Students may choose from 11 different academies that provide a head start to post-secondary education or lead directly

**English Language Learner Supports**

These services support non-native English speakers for their experiences and course work in an American High School. English is taught as a foreign language with emphasis on comprehension of both written and oral English. Area of study includes vocabulary, structure, pronunciation, spelling and composition. In addition, survival skills are a focus for students who may need an introduction to the American culture outside the classroom. Placement is determined through an individual evaluation; students may receive support that is intensive (beginning), intermediate, or transitional.

**Special Education Supports**

Services and supports are available for students with Individual Education Plans. Specific supports and service are determined with input from parents, students, counselor, and case manager.

**NEW Students to Anamosa High School**

Transfer students, students who have been attending another high school outside of Anamosa Community School District and whose parents/guardians have moved legal residence to Anamosa may enroll at Anamosa High School and begin classes anytime during the school year.

**\*Note:** A transcript from the last school attended is required before the student is allowed to enroll at Anamosa High School.

**Grade Transfer Policy:** Anamosa High School will accept previous school’s letter grades as the official grades.

**Kirkwood Career Edge Academies**

Anamosa High School students may attend the Kirkwood Jones Regional Education Center in Monticello to participate in the Career Edge Academy classes.

The academies include:

* Arts & Sciences (Academic)
* Automotive Technology
* Graphics
* Health Science
* Information Technology
* Engineering: Project Lead the
* Way (PLTW)
* Architectural Construction
* Metal Fabrication
* Hotel Management

(Please see attached information for more details.)

These classes are offered to any 11th or 12th grade student who demonstrate the ability to do college level course work by scoring at the 41st percentile on the ITED test in reading, math and science or COMPASS Test scores.

**ADVANCED PLACEMENT**

**(AP):** AP provides an academically challenging curriculum that allows students to take college-level courses while still in High School. For each AP course, an AP Exam is administered in May at participating schools worldwide. High School students may choose to take the AP exams in specific subjects such as English, History, and Calculus. Each AP exam contains a free response section (either essay or problem-solving) and a section of multiple-choice questions. The modern language exams also have a speaking component.

Colleges and universities use the AP results to determine college preparedness, student motivation, and placement. Students have the opportunity to earn credit or advanced standing at most of the nation’s colleges and universities. Students are strongly encouraged to take the AP exam. A fee is required to take the AP exam, which is administered in May. Please refer to the College Board

the 41st percentile in each of the subject areas: reading, mathematics, and science. High school students may not enroll full time in college credit coursework through Senior Year Plus at any one postsecondary institution. The full-time enrollment is defined as 24 or more credit hours per academic year. Any student who participates in Senior Year Plus Program is highly encouraged to file a FERPA form for on going communication between parents and program.

**Kirkwood Community College Articulation Agreements**

When students complete certain courses in the four Career & Technical Programs here at Anamosa High School, they may also earn credit at Kirkwood Community College.

**Kirkwood C.C. Course = AHS Courses**

**Agriculture**

- Introduction to Horticulture = Intro. To Agriscience, Biology of Ag., Landscape/ Nursery, Horticulture - Introduction to Agri-Business = Intro. To Agriscience, Biology of Ag., Intro. to Agri. Business - Survey of the Animal Industry = Intro. To Agriscience, Biology of Ag. Animal Agriculture, - Food Science & Technology

**Family & Consumer Science**

- Food Fundamentals I = Foods, Foods 2, Foods 3 - Introduction to Early Childhood Education = Child Development I and II

**Business**

- Accounting Concepts = Accounting - Typing I = Computer Applications I

**Industrial Technology**

- Integrated Physics = Principles of Technology - Carpentry Lab 1 = Construction - Architectural Drafting 1 =Architecture - CAD 1 = AutoCAD

**Kirkwood/AHS Programs**

**Kirkwood Make-Up Credits**

AHS students deficient in credits may earn up to five credits at the Kirkwood Learning Resource Center as part of the Jones Regional Education Center (JREC) in Monticello. The cost for each course is $150 plus a $60 book deposit refundable at the completion of the class. Students interested in this cooperative program must make arrangements and obtain a referral from the high school guidance office.

**Kirkwood High School Completion Diploma**

AHS students who make the choice to drop out of high school should consider a Kirkwood high school diploma, which can be earned by enrolling in the High School Completion Program at the Monticello Kirkwood Learning Center. There is no cost for this program if referred by AHS counselors.

Kirkwood also offers the complete HiSET (Formally known as GED) high school equivalency program at no cost. All arrangements and referrals must be done through the counseling office.

**Senior Year Plus Programs**

Senior Year Plus is an important part of high school reform efforts in Iowa. To prepare students for a competitive, knowledge-driven global economy, schools must prepare students for the demands of college and work. Senior Year Plus includes requirements specific to particular programs including: Postsecondary Enrollment Options (PSEO), Advanced Placement (AP), concurrent enrollment, career academies, and regional academies. To participate in Senior Year Plus programming, students must meet the academic requirements of both the school district and postsecondary institution. Students are determined to be proficient if they score at or above

To compete, student- athletes must be enrolled in at least 12 hours every semester of quarter and be making normal progress toward a baccalaureate degree. They must also meet freshman and/or continuing eligibility rules.

**Academic-Eligibility Requirements for Freshmen**

An entering freshman must:

* Be a graduate of an accredited high school or be accepted as a regular student in good standing as defined by the enrolling institution; and
* Meet two of three requirements. If as an entering freshman you do not meet at least two of three standards, you cannot participate in athletics for the first full year of attendance (two semesters, three quarters, or equivalent).
* Achieve a minimum on ACT or SAT.
* Achieve a minimum cumulative GPA
* Graduate in the top half of the class

Please refer to the NCAA Eligibility Center for further details at playnaia.org. Disclaimer The information concerning eligibility requirements is provided to prospective student-athletes and does not constitute binding advice or compliance with both the NCAA or NAIA rules and bylaws. NCAA and NAIA rules and bylaws are subject to change.

**Eligibility Center**

**NCAA Guidelines**

In order to earn a scholarship and actually play an interscholastic sport at a Division I or II college, a high school student must meet specific requirements set fourth by the NCAA. Students can register on-line and find additional information at the Eligibility Center website.

In addition, students must meet the guidelines for the composite score on the ACT or SAT exams. The NCAA accepts national and state official test scores. Anamosa High School does not send testing information. The students must code #9999 on the ACT test grid for the official score to be mailed directly to the Eligibility Center. Students should see their coach and/or counselor for further details. Not all course work at the high school level is accepted as core under NCAA preview. Please check for your courses on the 48-H approved courses roster located in the NCAA Eligibility Center Website.

Please refer to the NCAA Eligibility Center for further details at eligibilitycenter.org.

**NAIA Eligibility Requirements**

First time National Association of Intercollegiate Athletics (NAIA) students who wish to participate in athletics must have their eligibility determined by the NAIA Eligibility Center. Every student interested in playing sports at an NAIA college needs to register online.

In the NAIA, a student-athlete can compete during four “seasons of competition” within the first 10 semesters (15 quarters) in college.

A season of competition is counted when you participate in one or more intercollegiate contests whether at the varsity, junior varsity or freshman level.

Website at [www.collegeboard.com/student/testing/ap/about.html](http://www.collegeboard.com/student/testing/ap/about.html) for further information. Courses taught at Anamosa High School include:

* Calculus
* English Language
* English Literature
* US History

**College Entrance Requirements**

**Admissions Requirements**

The State Board of Iowa Higher Education of Iowa has adopted minimum subject requirements for public universities in an effort to help high school students improve their academic preparation for a baccalaureate degree program. Anamosa High School strongly recommends that students take courses to meet these requirements.

Individual public universities and community colleges may have subject requirements in effect as well as requirements involving test scores and grade point averages. Applicants must contact each college or university individually for details about all of its requirements.

The following high school subjects are typically required of freshman entering community college transfer programs and public universities. Research has shown that students who take courses that match such a pattern generally have higher ACT or SAT scores. Check Building Your Future: Preparing for Academic Success at Regent Universities of Iowa.

**Minimum Iowa Regent University Requirements**

English: 4 years, emphasis on analysis and interpretation of literature.

Mathematics: 3 years, including 2 years of Algebra, 1 year of Geometry

Science: 3 years, including 2 years from any two of the following – biology, chemistry, physics

Social Studies: 3 years

World Language: 2 years of a single foreign language

The Agriculture Courses are designed to prepare all students for college, technical training, apprenticeships and careers, including striving for higher achievement in science, math and communication. This diverse Career Cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, and other plant and animal products. It also includes related professional, technical, and educational services.

|  |
| --- |
|  |

Scope and Sequence

Elective / Science

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
| Intro to Agriculture, Food & Natural Resources | Intro to Agriculture, Food & Natural Resources  Animal Science  Plant Science  Basic Ag Mechanics  Environmental Science | Intro to Agriculture, Food & Natural Resources  Animal Science  Plant Science  Basic Ag Mechanics  Environmental Science  Agribusiness Mgt. / Marketing  Horticulture  Landscape / Nursery  Vet Tech  KCC- Survey of Animal Industry  KCC- Principles of Horticulture | Intro to Agriculture, Food & Natural Resources  Animal Science  Plant Science  Basic Ag Mechanics  Environmental Science  Agribusiness Mgt. / Marketing  Horticulture  Landscape / Nursery  Vet Tech  KCC- Survey of Animal Industry  KCC- Principles of Horticulture |

Agri-Science

**050/051 Intro to Agriculture, Food & Natural Resources**

**2 credit (Science) Year Long**

**Grades 9-12 Prerequisite: None**

Students participating in the Introduction to Agriculture, Food and Natural Resources course will experience hands-on activities, projects, and problems. Student experiences will involve the study of communications, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise. Woven throughout the course are activities to develop and improve employability skills of students through practical applications. Students will explore career and post-secondary opportunities in each area of the course.

In additions, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

**078 Animal Science**

**2 credit (Science) Year Long**

**Grades 10-12 Prerequisite: AFNR or Instructor Approval**

The major focus of the Animal Science course is to expose students to the world of agriculture, animal science, and career options. Students participating in the Animal Science course will have experiences in various animal science concepts with exciting hands-on activities, projects, and problems. Students’ experiences will involve the study of animal anatomy, physiology behavior, nutrition, reproduction, health, selection, and marketing. For example, students will acquire skills in meeting the nutritional needs of animals while developing balanced, economical rations. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, and industry personnel, face in their respective careers. In addition, students will understand specific connections between animal science lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

**056/057 Plant Science**

**2 credit (Science) Year Long**

**Grades 10-12 Prerequisite: AFNR or Instructor Approval**

Plant Science course will expose students to the world of agriculture, plant science, and career options. Students will have experiences in various plant science concepts through exciting “hands-on” activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy.

**Introduction to Soil Science**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: AFNR or Instructor**

**Approval**

Students will have an understanding of soil practices, soil formation, land classification and use, and soil fertility. This course will prepare students to be stewards of our land. Students will investigate animal and plant species that naturally occur in Iowa. Students may have an opportunity to participate in a soil judging field trip and have he opportunity to compete as a soil judging team through the FFA. A look into agronomic and horticultural crop production will also occur with emphasis placed on grain and forage crops. Crop classification and identification will be a portion of this section. Students will understand the fundamentals of basic construction and demonstrate applied skills through project construction. Leadership Development continues through the FFA program. Additional FFA activities and SAE projects will continue to be included throughout the year.

**Agribusiness Mgt./Marketing**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR, Animal or Plant**

**Science or Instructor Approval**

In this course, students will learn to apply accounting principles and economic concepts to farm and agribusiness situations. Concepts/ topics that will be learned include comparing the single and double entry accounting systems, purpose of the financial statement, cash flow statements and profit-loss statement, money and banking, credit requirements and procedures for getting an agricultural loan, financial analysis, investment analysis, marketing options, and Federal government programs and agencies. This course will also introduce students to the role of agribusinesses, which is the coordination of all activities that contribute to the production, processing, marketing, distribution, financing and development of agricultural commodities and resources. Business organizations, marketing concepts, sales techniques, customer relations considerations, satellite systems and computer databases and spreadsheets will be studied.

**Basic Agricultural Mechanics**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: AFNR or Instructor**

**Approval**

This course is for beginners. Students will explore the role of mechanics in the world of agriculture, identify career options in agricultural mechanics, and investigate shop procedures and personal safety. Students will operate hand woodworking tools as well as power tools needed to build a project of their choice. Students will practice basic sketching and drawing skills and figure a bill of materials. The principles of arc welding mild steel, using gas welding equipment, installing electrical branch circuits, and constructing simple plumbing systems will be studied. If time permits, students will study 2-cycle and 4-cycle engine theory. Diesel engine theory and rotary engine theory will also be discussed. Take a journey through all of the engine’s systems such as the internal engine and cylinder, carburetor and fuel system, governor and linkage components, rewind starters, electrical system, flysheet brake system, and ignition system. Students will use a repair manual to determine engine specifications and properly use a variety of specialty tools to disassemble and reassemble a 4-cycle engine provided to them through community sponsor.

**Horticulture (Floriculture)**

**1 credit (Science) 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Plant Science or**

**Instructor Approval**

This course is for those students who love houseplants and flowers. Students will be able to identify common houseplants, cut flowers, bulbs, annual bedding plants and perennials. Students will study the environmental requirements required for good plant growth, investigate the role of growth stimulants retardants, and rooting hormones, and complete propagation techniques commonly used in the horticulture industry. Students will treat unhealthy plants due to pests, nutritional, mechanical, or chemical injury. Students will practice what they have learned in the classroom by starting and caring for bedding plants in the department’s greenhouse. Floral arrangements will also be studied and designed.

**Landscape/Nursery (Spring)**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Plant Science or**

**Instructor Approval**

This course is for those students who love plant materials used in landscaping residential homes, schools, government buildings and businesses. Students will be able to identify ornamental grasses, vines, ground covers shrubs and trees commonly used in Iowa landscaping situations. Students will study the environmental requirements needed for good plant establishment and growth Computer technology will be used to make several landscape plans using the principles of landscaping. Establishing, maintaining and renovating lawns will also be studied. Student will practice what they have learned by landscaping projects in the community.

**Vet Technology**

**1 credit (Science) 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Animal Science or**

**Instructor Approval**

This course is intended to prepare students for college, technical training, apprenticeships, and careers related to health and care of domesticated farm animals, companion animals, and small pets. Students interested in zoology and marine biology may also want to take this course. Cell biology and animal anatomy and physiology concepts/topics will be studied in depth. Common ailments and ideas will also be investigated. Case studies will be used to help student develop problem-solving skills.

**Environmental Science**

**1 credit (Science) 1 Semester**

**Grades 10-12 Prerequisite: AFNR or Instructor**

**Approval**

This course is for those students interested in the great outdoors. General scientific and technological concepts will be used to investigate biomes, national and private forests and parks, soil conservation, water quality, fish and game management, and forestry managements. Students will take field trips to local areas, participate in the IOWATER Volunteer Monitoring Program, and listen to representatives from related educational institutions, community organizations, and others.

**Dual Credit Courses:**

**Survey of the Animal Industry**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Instructor**

**Approval**

**(*Part of the Kirkwood Agriculture Science Academy-3 college credits awarded after successful completion)***

Introduction to the uses of animals and animal products. Basic terminology, production practices, management and marketing of animals. Survey of the Animal Industry is a Kirkwood Community College Academy course. Students will be registered through Kirkwood and receive three college credits.

**Principles of Agronomy**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR, Soil Science, Plant Science or Instructor Approval**

**(*Part of the Kirkwood Agriculture Science Academy-3 college credits awarded after successful completion)***

This course presents instruction in crop plant classification, use and identification. It also covers cropping systems, tillage methods, planting and harvesting methods and crop growth patterns. It is a balance of theoretical and practical crop science. Principles of Agronomy is a Kirkwood Community College Academy course. Students will registered through Kirkwood and receive three college credits.

**Principles of Horticulture**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR, Horticulture, Plant Science or Instructor Approval**

***(Part of the Kirkwood Agriculture Science Academy-3 college credits awarded after successful completion)***

Includes plant growth, botanical nomenclature, anatomy, propagation, plant nutrition and climate, and introduces career fields within the horticulture industry. Class lab work will include use of the school grounds and greenhouse. Principles of Horticulture is a Kirkwood Community College Academy course. Students will be registered through Kirkwood and receive three college credits.

**058 Agribusiness Management/Marketing**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR, Animal or Plant Science or Instructor Approval**

In this course, students will learn to apply accounting principles and economic concepts to farm and agribusiness situations. Concepts/ topics that will be learned include comparing the single and double entry accounting systems, purpose of the financial statement, cash flow statements and profit-loss statement, money and banking, credit requirements and procedures for getting an agricultural loan, financial analysis, investment analysis, marketing options, and Federal government programs and agencies. This course will also introduce students to the role of agribusinesses, which is the coordination of all activities that contribute to the production, processing, marketing, distribution, financing and development of agricultural commodities and resources. Business organizations, marketing concepts, sales techniques, customer relations considerations, satellite systems and computer databases and spreadsheets will be studied.

**080 Basic Agricultural Mechanics**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Instructor Approval**

This course is for beginners. Students will explore the role of mechanics in the world of agriculture, identify career options in agricultural mechanics, and investigate shop procedures and personal safety. Students will operate hand woodworking tools as well as power tools needed to build a project of their choice. Students will practice basic sketching and drawing skills and figure a bill of materials. The principles of arc welding mild steel, using gas welding equipment, installing electrical branch circuits, and constructing simple plumbing systems will be studied. If time permits, students will study 2-cycle and 4-cycle engine theory. Diesel engine theory and rotary engine theory will also be discussed. Take a journey through all of the engine’s systems such as the internal engine and cylinder, carburetor and fuel system, governor and linkage components, rewind starters, electrical system, flysheet brake system, and ignition system. Students will use a repair manual to determine engine specifications and properly use a variety of specialty tools to disassemble and reassemble a 4-cycle engine provided to them through community sponsor.

**072 Horticulture (Floriculture)**

**1 credit (Science) 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Plant Science or Instructor Approval**

This course is for those students who love houseplants and flowers. Students will be able to identify common houseplants, cut flowers, bulbs, annual bedding plants and perennials. Students will study the environmental requirements required for good plant growth, investigate the role of growth stimulants retardants, and rooting hormones, and complete propagation techniques commonly used in the horticulture industry. Students will treat unhealthy plants due to pests, nutritional, mechanical, or chemical injury. Students will practice what they have learned in the classroom by starting and caring for bedding plants in the department’s greenhouse. Floral arrangements will also be studied and designed.

**067 Landscape/Nursery (Spring)**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Plant Science or Instructor Approval**

This course is for those students who love plant materials used in landscaping residential homes, schools, government buildings and businesses. Students will be able to identify ornamental grasses, vines, ground covers shrubs and trees commonly used in Iowa landscaping situations. Students will study the environmental requirements needed for good plant establishment and growth Computer technology will be used to make several landscape plans using the principles of landscaping. Establishing, maintaining and renovating lawns will also be studied. Student will practice what they have learned by landscaping projects in the community.

**066 Veterinary Technology**

**1 credit (Science) 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Animal Science or Instructor Approval**

This course is intended to prepare students for college, technical training, apprenticeships, and careers related to health and care of domesticated farm animals, companion animals, and small pets. Students interested in zoology and marine biology may also want to take this course. Cell biology and animal anatomy and physiology concepts/topics will be studied in depth. Common ailments and ideas will also be investigated. Case studies will be used to help student develop problem-solving skills.

**055 Environmental Science**

**1 credit (Science) 1 Semester**

**Grades 10-12 Prerequisite: AFNR or Instructor Approval**

This course is for those students interested in the great outdoors. General scientific and technological concepts will be used to investigate biomes, national and private forests and parks, soil conservation, water quality, fish and game management, and forestry managements. Students will take field trips to local areas, participate in the IOWATER Volunteer Monitoring Program, and listen to representatives from related educational institutions, community organizations, and others.

**Dual Credit Courses:**

**081 Survey of the Animal Industry**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR or Instructor Approval**

**(*Part of the Kirkwood Agriculture Science Academy-3 college credits awarded after successful completion)***

Introduction to the uses of animals and animal products. Basic terminology, production practices, management and marketing of animals. Survey of the Animal Industry is a Kirkwood Community College Academy course. Students will be registered through Kirkwood and receive three college credits.

**084 Principles of Horticulture**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: AFNR, Horticulture, Plant Science or Instructor Approval**

***(Part of the Kirkwood Agriculture Science Academy-3 college credits awarded after successful completion)***

Includes plant growth, botanical nomenclature, anatomy, propagation, plant nutrition and climate, and introduces career fields within the horticulture industry. Class lab work will include use of the school grounds and greenhouse. Principles of Horticulture is a Kirkwood Community College Academy course. Students will be registered through Kirkwood and receive three college credits.

Business Education

The Business field is a broad term comprising the largest employment of people in the United States. Students who take advantage of the wide variety of business course offerings at the high school level will find themselves better prepared for entry into college business courses or the business world. The Anamosa High Business Department offers a complete core of elective courses that teach the essentials for today’s world. Courses that teach practical skills; courses that provide career information to help students relate their interest, needs, and abilities to occupational opportunities in business; and courses that effectively teach both oral and written communications in order to develop interpersonal and human relations skills. These courses build a firm foundation for entry-level jobs and post-secondary education

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Scope and Sequence

Elective Courses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** | |
| Intro to Business | Intro to Business  Entrepreneurship  Accounting  Principles of Marketing  Teen Leadership | Intro to Business  Entrepreneurship  Accounting  Principles of Marketing  **Personal Finance**  Teen Leadership | | Intro to Business  Entrepreneurship  Accounting  Principles of Marketing  **Personal Finance**  Teen Leadership |

**150 Introduction to Business**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

This introductory class allows students to explore basic business concepts and structures in a collaborative, project-based team environment. Through project based activities and computer simulations students will gain experience in management leadership, project planning, human resources, and financial management while learning about the business world. Topics include business structure, ethics, consumer rights and responsibilities, entrepreneurship, small business ownership and the relationship of business with economics, government, and the global economy.

**151 Entrepreneurship**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Intro to Business**

This course is a continuation of the concepts introduced in Introduction to Business. Using student driven research and real-world business activities students will focus on entrepreneurship and small business ownership. They will use computer-based simulations to enhance their understanding of business ownership and operations, organizational structures, and strategic planning. As a final project, students will get the opportunity to write a business plan for a startup business.

**155/156 Accounting**

**2 credits Year Long**

**Grades 10- 12 Prerequisite: None**

This course gives students a thorough background in the basic accounting procedures used to operate a business and also prepares them for college accounting classes, which are required of all business majors. Students will learn the accounting cycle and use double entry accounting for a variety of business organizations, including proprietorships, partnerships, and corporations. Students will prepare monthly journals, ledgers, payrolls, and worksheets as well as end-of-fiscal-period financial statements. Both manual and automated accounting procedures are covered. Several projects and business simulations are used during the course to add realism and to give the students practical experience during both terms. Accounting is designed to prepare students for employment in business, provide a background for personal recordkeeping, and create a knowledge base for advanced accounting study in college. This course can be articulated into credit at Kirkwood Community College if students meet competency requirements.

**416 Personal Finance (REQUIRED)**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: 2 credits of math**

This course is designed to help juniors and seniors develop the financial literacy skills needed to be successful as individuals related to their personal finances after high school. Students will be informed and prepared to be effective managers of financial resources, enabling them to achieve long and short term financial goals and security.

Students will use real-life scenarios and simulations to demonstrate an understanding of personal financial planning and money management using sound decision-making and goal setting. Students will learn about various strategies and methods related to savings, investing, career planning, insurance, money management, and credit that will help ensure financial stability. In addition, students will examine the personal and societal consequences of financial decisions. Students will also learn how to complete a simple income tax return. The Personal Finance course curriculum is tied to the Iowa CORE Financial Literacy standards.

**147 Foundations of Marketing**

**1 credits 1 Semester**

**Grades 10-12 Prerequisite: None**

The purpose of this course is to familiarize students with the scope, terminology and functions of marketing in the modern business firm within our global economy. Students will focus on understanding and analyzing consumer motivation and how to use that understanding to develop a successful marketing campaign. Students will participate in real-world project-based learning and technology to gain a deeper understanding of marketing and develop 21st Century Skills in the areas of technology, creativity, innovation, collaboration, problem-solving, and communications skills. Students will develop an idea for a new cereal, design a cereal package, and develop a marketing plan to introduce it.

**147 Principles of Marketing**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None (Preference: take Intro to Business first)**

The purpose of this course is to familiarize students with the basic terminology, functions of marketing, and the marketing mix related to businesses within our global economy. Students will focus on understanding and analyzing consumer motivation and how to use that understanding to develop a successful marketing campaign using the most effective marketing mix. Students will participate in real-world project-based learning, case studies, technology, and simulations to gain a deeper understanding of marketing and develop 21st Century Skills in the areas of technology, creativity, innovation, collaboration, problem-solving, and communication skills. Students will develop an idea for a new cereal, design a cereal package, and develop a marketing plan to introduce it. This course is highly recommended for students considering a business major or career after high school.

**386 Teen Leadership**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

In this class, students develop leadership, personal, and business skills. They learn to develop an understanding of Emotional Intelligence and the skills it measures, which include self-awareness, self-control, self-motivation, and social skills. Students will develop skills in public speaking and communication and an understanding of personal image. They will develop an understanding of the concept of principle-based decision-making and develop their own personal mission statement. They will develop an understanding of the effects of peer pressure and will develop skills to counteract those effects. They will develop an understanding of the principles of parenting, enabling them to become better family members and citizens. They will also develop an understanding of the need for vision in goal setting, personally and professionally.

Information Technology

Students need to know the latest technologies and develop cutting edge skills for use in current jobs, future careers, and in their homes. All individuals use some form of technology, whether they watch television, send faxes, or interact with others around the world via satellite and the World Wide Web. Information Technology courses are designed to give students a broad base of expertise within the field. Students interested in furthering their education in the technical field will benefit from this program of studies.

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Scope and Sequence

Elective Courses

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| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
| Computer Business Applications  Graphic Design | Computer Business Applications  KCC – Desktop Publishing  KCC – Fundamentals of Web Programming  KCC – Emerging Technology Trends  Computer Programming  Graphic Design | Computer Business Applications  KCC – Desktop Publishing  KCC – Fundamentals of Web Programming  KCC – Emerging Technology Trends  Computer Programming  Graphic Design | Computer Business Applications  KCC – Desktop Publishing  KCC – Fundamentals of Web Programming  KCC – Emerging Technology Trends  Computer Programming  Graphic Design |

**162 Computer Business Applications**

**1 credit 1 Semester**

**Grade 9-12**  **Prerequisite:** **None**

This course is designed to allow students to become more familiar with various computer business applications such as Microsoft Word, Excel, Power Point, and Publisher. The focus is on developing proficiency in using Microsoft Office 2013 software in real world business situations as well as formatting documents correctly according to accepted general business practices. Students will develop skills for use in high school, college, and the workplace related to proper business letter formatting, using Excel spreadsheets to organize information and analyze data, creating multi-media presentations, and professional publications using Publisher.

**164 Desktop Publishing** *(Part of the Kirkwood Information Systems Management Academy-****3 college credits awarded after successful completion****)*

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

This course allows students to create professional-quality documents, such as one-page bulletins for short newsletters, magazine covers, and layouts using desktop publishing software. The students learn to use a variety of application software such as Adobe InDesign, Adobe Photoshop, Adobe Illustrator, and Microsoft Publisher. Desktop Publishing is a Kirkwood Community College Information Systems Management Academy course and students will receive three college credits and will be registered through Kirkwood.

**169 Computer Programming**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

Students will learn **basic** computer programming language and skills using Scratch, MS LOGO, Blender, Game Maker Pro and other programming software. These skills are intended to help a student gain a base knowledge, and will not fully prepare students for a computer programming job, but will set a foundation for future education for those deciding to go into the programming field. Students will use self-directed learning, collaboration, and instructor guidance to complete a variety of programming projects, including simple computer games. Students will have the opportunity through this course to explore whether there is an interest or aptitude to pursue computer programming as a potential career. This course will include various elements of computer programming career exploration. Students will further develop 21st Century Skills needed for future personal & career success.

**148 Fundamentals of Web Programming** *(Part of the Kirkwood Information Systems Management Academy****-3 college credits*** *awarded after successful completion)*

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

Must have strong computer skills – 95% of class time is working on a computer. In this college credit course students will learn the basics of writing Hypertext Markup Language (HTML) to create Web pages that include graphics, links, tables, frames, forms and styles. Students will also learn the basics of Cascading Style Sheets (CSS), JavaScript, and Dynamic HTML on an introductory level. Using project-based learning in the lab students will create Web pages and develop a Web site that includes text, tables, graphics, and Web forms. Fundamentals of Web Programming is a Kirkwood Community College Academy course. Students will be registered through Kirkwood and receive three college credits.

**170 Emerging Technology Trends** *(Part of the Kirkwood Software Specialist* *Academy-****3 college credits*** *awarded after successful completion)*

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

Improving communication skills by using multimedia technology is the goal of the class. Multimedia technology means different things to different people. It can be a communications tool, a teaching tool, a sales tool, or an artistic medium. Multimedia technology is a tool--not an end in itself. Students will move through the basics of PowerPoint and then add advanced features. Students will learn and use basic design strategy for presentations. Students will use clip art, download graphics from the Internet, edit graphics, and use photo editing software. Students will learn to capture and edit sound using a music mixing and editing software. Students will capture and edit video files. Students will use these newly learned skills to create movies using a video creation and editing software. Students will be registered through Kirkwood Community College.

**171 Graphic Design**

**1 Credit 1 Semester**

**Grades 9-12 Prerequisite: None**

This course introduces students to the graphic design process and the principles of design. Emphasis will be placed on problem solving and relating graphic design to communication. Students will study the principals of design, color theory, typography, and will use major design software including Adobe Photoshop and Adobe InDesign, as well as some work with Microsoft Publisher. Students will also explore career options in the graphic design industry. Graphic Design is an excellent course to prepare for a school yearbook/newspaper staff position.

Family & Consumer Sciences

Our Family and Consumer Sciences program seeks to enable students to become independent and autonomous adults by providing functional learning experiences. Students who take advantage of the wide variety of Family and Consumer Sciences courses will better prepare themselves for everyday living, no matter what field they choose. The courses provide career information to help the students relate their interest and skill to job opportunities. The skills practiced in these courses also enable students to learn entry-level job skills, especially teamwork. They build a firm foundation for post-secondary education.

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Scope and Sequence

Elective Courses

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
| Child Development 1  Fashion  Foods  Interior Design | Child Development 1  Child Development 2  Fashion  Foods  Foods 2  Foods 3  Relationships  Interior Design  Parenting | Child Development 1  Child Development 2  Fashion  Foods  Foods 2  Foods 3  Relationships  Interior Design  Parenting | Child Development 1  Child Development 2  Fashion  Foods  Foods 2  Foods 3  Relationships  Interior Design  Parenting |
| Child Development 1  Child Development 2  Fashion  Foods | Child Development 1  Child Development 2  Fashion  Foods  Foods 2  Foods 3  Fashion 2  Relationships  Interior Design  Parenting | Child Development 1  Child Development 2  Fashion  Foods  Foods 2  Foods 3  Fashion 2  Relationships  Interior Design  Parenting | Child Development 1  Child Development 2  Fashion  Foods  Foods 2  Foods 3  Fashion 2  Relationships  Interior Design  Parenting |

**254 Child Development 1**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Students will study the emotional, social, physical, and intellectual development of children.  The course includes development the first year through age six. This course will provide useful information for anyone who plans to be a mother, father, teacher, or caretaker of children.

**255 Child Development 2**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Child Dev. 1**

This course covers four units: careers in child development, health and safety, family challenges, and childcare settings. Students will create their own preschool and a variety of lessons based around a theme. Students will also spend multiple days working with preschool, kindergarten, or first grade students at Strawberry Hill Elementary.

**250 Foods**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

This course has been designed to help students understand basic food preparation, terminology, and equipment. Students will complete units on kitchen safety, measuring, cookies, quick breads, yeast breads, eggs, fruits, vegetables and ground beef.

**252 Foods 2**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Foods**

This advanced foods course will take a deeper look into the culinary field. Students will study different types of careers in the food service industry along with experimenting with a variety of cooking methods. Other units include: types of chefs, knife skills, garnishes, salads, soups, casseroles, pies and cake decorating.

**253 Foods 3**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Foods & Foods 2**

This course will take a look at foods across the United States along with International Cuisines. We will take our basic knowledge about spices and cooking techniques from Foods 2 one step further. This is a great course for anyone planning on entering the Culinary Arts field.

**261 Fashion**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

This course will cover information on various types of fabrics and clothing care. We will also take a look into the principles and elements of design, color schemes, fashion history and fashion trends. Multiple fashion designers and their clothing or shoe lines will be studied. Careers in retail and fashion merchandising will also be examined.

**256 Relationships**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

This course is designed for the student who wishes to better understand themselves, their family, and their roles in society.  Some units covered are: healthy vs. unhealthy relationships, family relationships, dating/ marriage, and workplace relationships. This class will invite local guest speakers to present what their organizations have to offer families.

**259 Interior Design**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

This course will cover many aspects of housing.  Units include housing styles, principles and elements of design, color schemes, furniture selection, and furniture arrangement.  Students will use a computer program to design a layout and furnish a home using interior design skills.

**257 Parenting**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

# The course content includes: the decision to parent, the family life cycle, the reproduction process, the nine months of pregnancy, labor and delivery, newborn needs, and the roles of being a parent. This class also requires taking home a computerized baby for four evenings or one weekend.

HUMAN GROWTH AND DEVELOPMENT

DEVELOPMENT

1 credit REQUIRED

1 Term during grades 9-12

Courses that meet this graduation requirement are:

Health & Fitness,

Child Development I,

Relationships, or

Parenting

(see descriptions under Family & Consumer Sciences).

**605/606 Health/Fitness**  **(REQUIRED)**

**2 credits 2 Semesters**

**Grade 9 Prerequisite: None**

1 Human Growth Credit

1 Fitness Credit

Topics include: Substance Abuse, Human Sexuality, Contagious Diseases (STI’s), and Dimensions of Health.

Art

Art Department courses are elective courses. The content area of the Art Department provides a foundation for all students to pursue life-long learning skills and possible art careers. Knowledge and skill in this content area also provide many advantages in choices and decisions the students make over their lifetime. The content area will include, but not limited to career potential, work ethic, life-long learning, critical thinking, problem solving, decision-making and collaborative learning. The learning goals of the art department are:

* To understand and apply media, techniques and processes;
* To use knowledge of structures and functions;
* To understand the visual arts in relation to history and cultures;
* Reflect upon and assess the characteristics and merits of their work and the work of others;
* To make connections between visual arts and other disciplines

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Scope and Sequence

Elective Courses

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| 3-D Studio  Printmaking  Ceramics 1  Drawing 1  Painting 1 | 3-D Studio  Printmaking  Ceramics 1  Ceramics 2  Drawing 1  Drawing 2  Drawing 3  Painting 1  Painting 2  Video Production 1  Video Production 2 | 3-D Studio  Printmaking  Ceramics 1  Ceramics 2  Drawing 1  Drawing 2  Drawing 3  Painting 1  Painting 2  Video Production 1  Video Production 2 | 3-D Studio  Printmaking  Ceramics 1  Ceramics 2  Drawing 1  Drawing 2  Drawing 3  Painting 1  Painting 2  Video Production 1  Video Production 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| 3-D Studio  Graphic Design 1  Ceramics 1  Drawing 1  Painting 1 | 3-D Studio  Graphic Design 1  Ceramics 1  Ceramics 2  Drawing 1  Drawing 2  Drawing 3  Painting 1  Painting 2  Video Production 1  Video Production 2 | 3-D Studio  Graphic Design 1  Ceramics 1  Ceramics 2  Drawing 1  Drawing 2  Drawing 3  Painting 1  Painting 2  Video Production 1  Video Production 2 | 3-D Studio  Graphic Design 1  Ceramics 1  Ceramics 2  Drawing 1  Drawing 2  Drawing 3  Painting 1  Painting 2  Video Production 1  Video Production 2 |

**109 3-D Studio 1**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Basic sculptural processes and concepts; emphasis on developing personal ideas and skills (wire, plaster, cardboard, and found object).

**104 Ceramics 1**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Ceramics I is intended for the beginning student who will learn terms and techniques for successful clay projects. Basic ceramic processes and concepts: wheel throwing, hand-building, glazing, and firing.

**105 Ceramics 2**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Ceramics 1**

Ceramics II is a class designed to learn how to carve, apply, and stamp their ceramics projects. Students will refine their throwing abilities and will investigate clay further with more in-depth projects.  Larger objects will also be thrown on the wheel, including a tall pot made of two small ones.

**101 Drawing 1**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Drawing I will focus on the Elements of Art, which are the fundamentals of visual art. Students will develop their drawing skills through observation, instruction and experimentation. An overall introduction to drawing concepts with practical applications (basic drawing and portrait). Several forms of media will be used.

**102 Drawing 2**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Drawing** 1

Drawing II will focus on composition and advanced techniques (landscape and figure). Several forms of media will be used.

**103 Drawing 3**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Drawing 1, & Drawing 2 or Instructor Approval**

Drawing of the face and figure with an emphasis on life drawing skills. A highly recommended course for students with an interest in either majoring in art in college or becoming game designers.

**107 Painting 1**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Introduction to painting using watercolor, acrylic and oil media.

**106 Printmaking**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Introduction to various printmaking processes and lettering, with design projects.

**107 Painting 1**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

Introduction to the basic media of painting; watercolor, acrylic and oil. Projects that explore the uses of each media.

**108 Painting 2**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Painting 1**

The student will choose their media for each project. Investigate shaped canvas, multiples and the work done by famous painters.

**112 Video Production 1**

**1 credit 1 Semester**

**Grades 10 -12 Prerequisite: None**

Introduction to basic video production techniques; storyboarding, and editing on a Mac computer. Individual and group projects. View some of the American Film Institute’s “100 Best Movies”.

**113 Video Production 2**

**1 credit 1 Semester**

**Grades 10 -12 Prerequisite: Video Production 1**

Studio experimentation of video with individual and group projects. A multi-media approach. View some of the American Film Institute’s “100 Best Movies”.

Music

The Anamosa High School Music Department provides learning opportunities and performance experiences in music that are pertinent, articulated, meaningful, and accountable, as a means to developing the aesthetic potential that exists in all students. Courses are available to account for all levels of ability and experience, and each course promotes the development of attributes (such as critical thinking, problem solving, and self-discipline) that contribute to improved student performance in all curricular areas.

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Scope and Sequence

Elective Courses

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| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| Men’s Chorus  Women’s Chorus  Instrumental Music (Band)  Music Appreciation | Men’s Chorus  Women’s Chorus  Instrumental Music (Band)  Music Appreciation  Music Theory | Men’s Chorus  Women’s Chorus  Instrumental Music (Band)  Music Appreciation  Music Theory  Advanced Music Theory | Men’s Chorus  Women’s Chorus  Chamber Choir  Instrumental Music (Band)  Music Appreciation  Music Theory  Advanced Music Theory |

**466 Men’s Chorus**

**2 credits per year Year Long**

**Grades 9-12 Prerequisite: None**

Unauditioned. Students will perform literature from a wide variety of genres and selections. Men's chorus will perform at each quarterly concert.

**465 Women’s Chorus**

**2 credits per year Year Long**

**Grades 9-12 Prerequisite: None**

Unauditioned. Students will perform literature a wide variety of genres and selections. Women's chorus will perform at each quarterly concert.

**450 Chamber Choir**

**2 credits per year Year Long**

**Grades 12 Prerequisite: 3 years of choir.**

Chamber Choir is available to primarily seniors, who excel and meet the requirements of the audition with the course instructor. Chamber choir will perform advanced repertoire from a variety of genres.

**452 Instrumental Music**

**2 credits per year Year Long**

**Grades 9-12 Prerequisite: Instructor Approval, “C” average in prior**

**instrumental music class. A current physical is**

**required for Marching Band. A commitment**

**form must be signed prior to the beginning of the**

**school year.**

Instrumental music class gives students the opportunity to learn more about music and culture through participation in ensembles and private instruction. Students perform various types of repertoire from a variety of genres and eras. Also, students learn about basic concepts of music including note identification, chord and scale construction, and performance skills. When enrolled in this class, students are required to participate in marching band, concert band, and pep band. Participation in concerts, marching band performances, and a specified number of pep band performances is required of all members and will be graded. Students receive private instruction with the teacher every other week. Students may receive weekly private instruction pending teacher approval. The goal of private instruction is to extend student’s musical learning and ability beyond that of the ensemble repertoire on an individualized basis. Additional opportunities available to instrumental music students include Jazz Band, Show Band, various honor bands, chamber ensembles, and solo performances.

**0461 Music Appreciation**

**1 credit (Dual Credit) 1 Semester**

**Grades 9-12 Prerequisite : None**

Music Appreciation is designed for students who have a genuine interest in learning more about music as a unique aspect of our culture. The course begins with an overview of basic musical concepts such as rhythm and pitch. Then, this knowledge is applied to music of various time periods and world cultures. Students will have the opportunity to participate in learning activities by playing various instruments and listening to different types of music. Also, students will be encouraged to attend outside performances and reflect on these experiences. This course is open to all students, regardless of their enrollment in other music classes.

**454 Music Theory**

**1 credit (Dual Credit) 1 Semester**

**Grades 10-12 Prerequisite: Instructor Approval, successful completion of at least 1 year of a performing ensemble, either choral or instrumental.**

Music theory serves as an extension of the music concept knowledge gained in performing ensembles and is meant to give music students a deeper understanding of various aspects of music to increase knowledge and improve performance. Some of the concepts included in this course include notation, scales, tonality, key, modes, intervals, form, and chord structure and function. Additionally, this course will include an ear training component consisting of basic harmonic and melodic dictation and interval identification. This course is highly recommended for students seeking post-secondary musical instruction of any kind.

**455 Advanced Music Theory**

**1 credit (Dual Credit) 1 Semester**

**Grades 11-12 Prerequisite: Instructor approval, successful completion of at least two years of a performing ensemble, either choral or instrumental, successful completion of the Music Theory course**

Advanced music theory will further extend students’ musical knowledge gained in performing ensembles and the first music theory course. In addition to furthering students knowledge of the concepts taught in the first music theory course, the advanced course will include transposition, arranging, composition, counterpoint, part-writing, modulation, and theoretical concepts relating to various musical eras and styles. Students will also better their aural skills through the sight singing and ear training portions of this course. This course is highly recommended for students seeking post-secondary musical instruction of any kind.

Spanish

Our mission is to help students become communicative, insightful world citizens. We encourage students to enroll in Spanish. Students need to check with their prospective colleges to inquire about world language requirements as they vary from college to college.

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Scope and Sequence

Elective Courses

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
| Spanish 1 | Spanish 1  Spanish 2 | Spanish 1  Spanish 2  Spanish 3 | Spanish 1  Spanish 2  Spanish 3  Spanish 4 |

**208/209 Spanish 1**

**2 credits per year Year Long**

**Grades 9-12**

The goal of this course is for students to be able to communicate in Spanish on an elementary level about everyday situations, such as greetings, telling time, school, food, etc. Students will develop and understand the language by means of knowledge to interpret, present, and show interpersonal skills. Reading and writing are included in the program. Hispanic culture is introduced and taught to increase awareness of other people. Much of the class is in the target language, therefore participation is required.

**210/211 Spanish 2**

**2 credits per year Year Long**

**Grades 10-12 Multi-Level *Prerequisite: Spanish 1 or Instructor Approval.***

The course will be taught primarily in the target language. Students will be able to communicate in Spanish on an intermediate level about everyday situations. Grammar and vocabulary of Spanish 1 is reviewed and supplemented. More verb tenses are taught and the grammar structures are advanced. Emphasis is placed on speaking and listening. Through out the year, the Hispanic culture will be integrated into the course.

**212 Spanish 3**

**2 credits per year Year Long**

**Grades 11-12 Multi-Level *Prerequisite: Spanish 2 or Instructor Approval.***

College-bound students are recommended to take this course. Students will continue to refine and advance their communication skills. The course is taught primarily in the target language. Grammar study and vocabulary building will continue to be stressed. Students will actively participate using their attained skills to communicate in both every day and creative situations. Emphasis is placed on speaking and listening. Through out the year, the Hispanic culture will be integrated into the course.

**214 Spanish 4**

**2 credits per year Year Long**

**Grade 12 *Prerequisite: Spanish 3 or Instructor Approval.***

Spanish 4 is recommended for the college-bound student. The course will be taught in the target language except when explaining grammar. Students will be engage in conversation about everyday topics. Students must communicate with one another and with the teachers in the target language. Emphasis will be placed on speaking, listening, reading and writing in the target language. Through out the year, the Hispanic culture will be integrated into the course.

Industrial Technology

Course work is designed to introduce the student to technical fields as they relate to life-long learning within chosen career paths. Our goal is to equip the learner with proper safety orientation and terminology and to provide hands-on learning in the applied areas. Students are encouraged to explore all areas of interest. The courses within the department offer students the ability to focus their course of study to one of the following areas: architecture, engineering, manufacturing, robotics, woodworking, and construction. Students will become self-directed as they complete advanced level courses and apply math, science, and communication skills.

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Scope and Sequence

Elective Courses

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| Beginning Industrial Tech  Construction  Manufacturing  Materials & Process:  Woodworking 1  Welding | Beginning Industrial Tech  Construction  Manufacturing  Materials & Process:  Woodworking 1  Welding  Architectural CAD  Energy, Power & Transportation  Principles of Technology  CAD Design  Robotics | Beginning Industrial Tech  Construction  Manufacturing  Materials & Process: Woodworking 1  Welding  Architectural CAD  Energy, Power & Transportation  Principles of Technology  CAD Design  Robotics  Materials & Processes: Woodworking 2  Building Trades | Beginning Industrial Tech  Construction  Manufacturing  Materials & Process: Woodworking 1  Welding  Architectural CAD  Energy, Power & Transportation  Principles of Technology  CAD Design  Robotics  Materials & Processes: Woodworking 2  Building Trades |

**300/301 Beginning Industrial Technology**

**2 credit Year Long**

**Grades 9-12 Prerequisite: None**

This would be an excellent first course for any student to take in the Industrial Technology area. This course involves short introductory units of study in all the new technology areas, which include energy and power, graphic communications, transportation, Manufacturing, and construction. It is a “taste of industrial technology”. Among many other activities it covers such things as a study of time where everyone builds a clock or similar time keeping or telling machine, a study of transportation where we might build model racecars or fly rockets, a unit in communication where each student will use the darkroom to create a photograph or screen print a garment. The computer and the language of the computer is studied and everyone does numerous projects on the computer. Manufacturing could involve a mass produced project and construction could involve the study of house building and the actual construction of a scale model house. This course would have to be considered one of the best overall programs any student could become involved in. Various careers are examined and each student will study certain careers that they think they might like to pursue someday.

**318 Architectural CAD**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Algebra I**

The emphasis of this course will be the design of and model building of residential housing systems. Both single and multiple- dwelling units will be designed and built. Conventional board drafting and Computer-Aided-Drafting, using AutoCAD, will be used in the design process throughout the course. Anamosa area homes will be toured throughout the term. The residential architectural variety in this area is unique for a community of its size.

**322 Manufacturing**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Algebra I**

Cold Metals (Manufacturing) is a one term course that will include the study of industrial metals, their composition, their workability, and match inability. Foundry, Forge and heat-treating metals will be studied. Sheet metal projects will teach students methods of mechanically fastening steel. Students will learn to drill and tap holes by hand and on machines. Students will first learn to machine metals by hand on the vertical mill and lathe, and then learn to program the machines and run their computer programs on our C-N- C machines (Computer-Numerical Control). Students will also use the C-N-C plasma cutter to make whatever design they choose out of metal up to ½ inch thick.

**312 Construction**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Residential construction will be the emphasis of this course. All aspects of the construction of a new home will be covered. Selecting and buying a lot, lot layout, zoning and building codes, interpreting drawings and details, and financing used and new homes. Units in concrete block laying, residential electrical wiring, plumbing and finish carpentry will also be introduced to help prepare students as future home owners. The second half of the term will be used to construction lawn sheds of various sizes. This small hands-on project has emphasis on flooring, wall, and roofing systems.

**306 Energy, Power & Transportation**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Algebra 1**

This is a study of the classification of and the forms of energy, sources of energy and past, present and future uses of energy. It studies the careers and educational requirements for a career in this field. Units will include the study of solar, wind and geothermal energy (inexhaustible sources) and fossil fuels and nuclear energy (exhaustible sources). Water, bio-conversion, wood, chemical and others would be included here. The students will study and use types of power systems; hydraulics, pneumatics, electrical, and mechanical. Transportation systems will also be studied in this program. The major categories of highway, air, rail and water will be discussed.

**321 Welding**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Hot Metals (Manufacturing) is a one term course that will include the study of industrial metals, their composition, their workability, and their ability to be heat-treated. Students will use oxy-acetylene torches to heat, bend, cut and weld steel. They will also use plasma cutters to cut steel and do fine decorative cutting. The students will learn to weld steel and aluminum using MIG, TIG and stick welders. Students will also use the C-N-C plasma cutter to make whatever design they choose out of metal up to ½ inch thick.

**304 Materials & Process: Woodworking 1**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

The safe and proper use of woodworking power tools and machines is the emphasis of this course. Design and layout techniques will be learned. A series of small projects will be completed by course’s end including one wood lathe project. Course work will include: biology and life span of a tree, wood species, hard and soft woods, wood materials, U.S. forest lands, U.S. national forests, joinery, assembly, and finishing.

**305 Materials & Process: Woodworking 2**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: Finish Carpentry 1**

The manufacture of furniture projects is the emphasis of this course. Students will take the knowledge learned in Woodworking 1 and apply it to the completion of a term-long project. Course work will include: step-by-step design and plan of procedure, advanced joinery, mechanical fastening, and fine furniture finishes.

**316/317 Principles of Technology (Science Credit)**

**2 credits Year Long**

**Grades 10-12 Prerequisite: Algebra 1**

This is an “Applied” Physics course. Any student who wishes to pursue any form of postsecondary education will benefit from this course. It blends an understanding of basic principles of physics and illustrations of practical applications. It will give you a firm foundation for understanding today’s and tomorrow’s technology. Students can take the course as either an elective or as a science credit. This course may be taken in sequence with Physics for a 2nd year of science credit. The topics covered are: force, work, rate, resistance, energy, power, and force transformers. In each of these seven units, the topic will be covered as related to mechanical, electrical, fluid and thermal systems. Because technology is changing the way we live, work, and play, we need to keep current and understand it, if we are to control it and use it to our advantage.

**310 CAD Design**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: Algebra 1**

Course content will include: Pre-design sketching skills, Autodesk, Inventor fundamentals, and design skills. Inventor is the industries most popular 3-dimensional design software. Drafting topics covered will include: orthographic projection, isometric drawing, perspectives, section views and auxiliary views. Engineering principles addressed will include: Space geometry, Vector geometry, and Graphical mathematics.

**325 Building Trades**

**8 credits 2 Blocks daily- Year Long**

**Grades 11-12 with Instructor Approval Prerequisite: 4 terms Industrial Technology (must have 1 Term Construction or Ag. Dept.’s Construction Engineering, and 2 years math at “C-” proficiency. Must be in good academic standing and on track to graduate, including Portfolio.)**

This course will cover all aspects of home construction: framing, plumbing, electrical, concrete work, finish work, etc. It will meet for 2 blocks of the school day throughout the entire year. Students should have a strong interest in building construction, be willing and able to work outside in all weather conditions, lift and carry construction materials, have basic knowledge of tools used in construction, and have strong safety practices. You will learn from on the Job Experiences and situations; develop and apply problem solving skills. Student must supply their own appropriate clothing, eye protection, hard hat, and basic hand tools. Attendance is very important in this class. Students missing the class will be required to make-up time outside the school day. This program is shared with other schools in the Anamosa area. Total number of students is limited to twelve.

**319 Robotics**

**1 Credit 1 Semester**

**Grades: 10-12 Prerequisites: Algebra 1**

Students will develop skills in mechanical design (CAD), CNCprogramming and construction as they work in teams to build simple and complex robotic devices. We will explore usage of robotics in modern business and industry and examine how robotic devices are affecting out lives and shaping out culture. Students will apply concepts learned in physical science and physics classes to mechanic devices.

Project Lead the Way - PLTW

PLTW courses are through Kirkwood and are dual credit courses. These courses are designed as Pre-Engineering Courses.

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Scope and Sequence

Elective Dual Credit

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
|  |  | KCC – Intro to Engineering Design  KCC – Principles of Engineering | KCC – Intro to Engineering Design  KCC – Principles of Engineering |

**Project Lead The Way**

**329 Introduction to Engineering Design**

**2 credits Year Long**

**Grades: 9-12 Prerequisites: Algebra I, currently enrolled in Algebra II or Geometry**

Introduction to Engineering Design (IED) is a high school level course that is appropriate for the 9th or 10 grade students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, team work, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project- and problem based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

**327 Principles of Engineering**

**2 credits Year Long**

**Grades 10-12 Prerequisites: IED**

A course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

English

In order to graduate from Anamosa High School students must earn eight credits of English. Junior year teachers will recommend the most appropriate course for the student’s senior year. Additional elective English course can be taken from a selection of journalism, drama, and literature courses.

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Scope and Sequence

Required are **Bold**

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| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| **English 9**  Creative Writing  Journalism/Yearbook Publications  Intro to Theatre  Reading Lab | English 9  **English 10**  English 10 – Honors  Creative Writing  Film as Literature  Intro to Theatre  Speech  Journalism/Yearbook Publications  Reading Lab | English 9  English 10  **English 11**  Creative Writing  Film as Literature  Intro to Theatre  Speech  Journalism/Yearbook Publications  Reading Lab  AP Language/Composition  AP Literature/Composition | English 9  English 10  English 11  **College Prep Writing or Senior Seminar**  Creative Writing  Film as Literature  Intro to Theatre  Speech  Journalism/Yearbook Publications  AP Language/Composition  AP Literature/Composition |

**0330 Reading Lab**

**2 credits Year Long**

**Grade 9-11**

Students enrolled based on standardized test results, reading level, or counselor/teacher recommendation and is taken in the same semester as other English courses. The goal of the course is to raise each student’s reading level and the focus will be on reading comprehension and fluency. Instruction will accommodate the individual students and personal growth will be tracked. Students will be asked to choose books that suit their tastes and challenge their thinking. Students will be expected to monitor their reading outside of class."

**0332/0333 English 9 (REQUIRED)**

**2 credits Year Long**

**Grade 9-12**

English 9 is a required course for graduation. Students are introduced to high school level study of language arts—reading, writing, listening skills, and test taking strategies and practices. Units of study include basic composition, drama, short stories, and novels. Vocabulary will be literature-driven, as well as those found on standardized tests.

**0336/0337 English 10 (REQUIRED)**

**2 credits** **Year Long**

**Grade 10-12 Prerequisite: English 9**

English 10 is a required course for graduation. Students continue their study of high school level language arts-reading, writing, listening skills, and test taking strategies and practices. Units of study include composition, drama, short stories, and novels. Vocabulary will be literature driven, as well as those found on standardized tests.

**0338/0339 English 10-Honors**

**2 credits** **Year Long**

**Grade 10 Prerequisite: English 9**

Students may enroll based on standardized test results, reading level, or counselor/teacher recommendation. English 10 Honors is an accelerated English class that will continue emphasis on analytical reading and writing. Students will have the opportunity to read poetry, novels, short stories, and drama. Students will write numerous literary analysis papers over class reading selections. They will also write a full-length research paper and several in-class essays.

**0341/0342 English 11 (REQUIRED)**

**2 credits** **Year Long**

**Grade 11-12 Prerequisite: English 9 & 10**

English 11 is a required course for graduation. Students who have completed both English Honors 9 and 10 are not eligible for this course. (See AP Language/Composition for appropriate selection.) This course will cover composition, public speaking, and American literature. Composition will include basic structure and style with an emphasis on writing informative and argumentative essays. American literature will include a study of fiction, poetry, and drama.

**0343 College Prep Writing (required if not taking Senior Seminar)**

**2 credits** **Year Long**

**Grade 12 Prerequisite: English 9, 10 & 11**

This course is designed for any student who is considering college or interested in improving reading or writing skills. Students will improve their writing through practices in organization, developing ideas, research papers, college admission essays, and scholarship writings. Skills to improve reading comprehension will also be included.

**0344 Senior Seminar (required if not taking Senior Seminar)**

**2 credits** **Year Long**

**Grade 12 Prerequisite: English 9, 10 & 11**

This course is designed for any student who is planning to pursue careers directly after high school to explore the use of reading and writing in everyday life. Student will improve writing skills through practices of job related writings and look at the value of literature in everyday reading.

**0369 Creative Writing**

**1 credit**  **Year Long**

**Grades 9-12 Prerequisite: None**

This course offers students the opportunity to identify, practice, and refine their writing skills. The focus of the course is the development of the high school’s literary magazine that will consist of various writing projects completed throughout the course by Creative Writing students and submissions from students outside the course. Other class projects will include a children’s book, poetry, drama, short stories, letters, essays, and others.

**0368 Film as Literature**

**1 credit**  **Semester course**

**Grades 10-12 Prerequisite: English 9**

Film has become literature for Americans. This class will view, discuss, and write about films and literature. Students will read short stories, which inspired the films. The course will include reading, writing, and speaking while increasing the awareness of film techniques and the history and cultures that films create.

**0396 Introduction to Theatre:**

**1 credit**  **Semester course**

**Grades 9-12 Prerequisite: None**

Introduction to Theatre students will study the elements of theatre, its literature and production techniques. The craft of acting will be explored and an emphasis will be placed on scene and character analysis. Students are required to perform with the class as part of the semester project.

**363 Speech**

**1 credit**  **1 Semester course**

**Grades 10-12 Prerequisite: None**

Students enrolled in this course will be creating and delivering a variety of speeches with the purpose of learning to better deliver and organize content. Units of study include a research based speech, digital media, special occasion speech, and argumentative speech.

**362 Journalism/Yearbook Publications**

**1 credit**  **1 Semester course**

**Grades 9-12 Prerequisite: None**

Each year a staff of high school students create the *Raider Yearbook* andmonthly issues of the *A-town Low-down* (school newspaper);as well as additional miscellaneous publications for the high school. ***AHS Yearbook/News Publications*** operates as a student run business organization, using business systems, and processes to create quality products, operate within a budget and develop team members’ future career success skills. Staff positions include, Editor-in-Chief, Business/Advertising Manager, Layout Design Editors, Photo Editors, Copy Editors, Section Editors, Web Master, Advertising Editor, Journalist, and Photographer.  ***AHS Journalism/Yearbook Publication***a strong emphasis will be placed on students developing skills in journalistic writing, creativity, leadership, and graphic design principles needed for college and career success. Technology used in productions and design includes DSLR Photography, Google Classroom, Yearbook creation software, InDesign, and Photoshop. ***AHS Yearbook/News Publications*** needs students who are responsible, organized, problem-solvers, team players, committed, and that can meet deadlines. If you think you meet these criteria, please see the *AHS Yearbook/News Publications* adviser for information on how to apply

**Advanced Placement (AP)**

**0383 AP Language/Composition**

**2 credits** **Year Long**

**Grade 11-12 Prerequisite: English 9H, English 10H or Instructor Approval**

Students will do college-level work with a chance to earn college credit while in high school. A test is administered in May to determine the exact amount of credit. Advanced Placement Language and Composition focuses on reading techniques, literary devices, rhetorical/logic skills, writing techniques, and various types of analytical writing. A weighted scale will be used for all AP courses: A=5, B=4, C=3, D=2, F=0.

**0384 AP Literature/Composition**

**2 credits** **Year Long**

**Grade 11-12 Prerequisite: English 9H, English 10H, AP Lang. or Instructor Approval**

Students will do college-level work with a chance to earn college credit while in high school. A test is administered in May to determine the exact amount of credit. Advanced Placement Literature and Composition focuses on the critical analysis of poetry, drama, and prose of material from the Renaissance through modern literature. A weighted scale will be used for all AP courses: A=5, B=4, C=3, D=2, F=0.

**Kirkwood Arts & Sciences (Academic) Academy Classes description is at the end of this handbook. The Academy classes allow students to receive college and high school credits.**

Mathematics

The math department offers a traditional program, which stresses algebra and geometry. Course offering will challenge gifted students as well as those students who may be seeking entry into the world of work or the college environment. The minimum college entrance requirements include completion of Algebra, Geometry, and Algebra 2. AHS recommends a successful completion of 4 years of mathematics for students going into a four-year college or a tech school.

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Scope and Sequence

6 Credits Required

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| Pre-Algebra  Algebra 1  Algebra 2 | Pre-Algebra  Algebra 1  Algebra 2  Geometry | Pre-Algebra  Algebra 1  Algebra 2  Geometry  Pre-Calculus  Technical Math  AP Calculus  AP Statistics | Pre-Algebra  Algebra 1  Algebra 2  Geometry  Pre-Calculus  Technical Math  AP Calculus  AP Statistics |

**432 Pre-Algebra**

**2 credits Year Long**

**Grades 9-12 Prerequisite: Faculty recommend- based on middle school ITBS & MAP tests**

Pre-Algebra is designed to teach and reinforce the skills necessary for Algebra. Topics include integer operations, rational number operations, tools of algebra, linear equations, measurement, ratio, proportion, percent, statistics, and probability.

**406/407 Algebra 1**

**2 credits Year Long**

**Grades 9-12 Prerequisite: None**

The Algebra 1 course is designed to encourage thought. Students discover how a system of algebra is developed and learn to justify their mathematical statements by logical argument. The work is designed to generate thought as well as to develop mathematical skill. The student gains a vocabulary of algebraic terms including concepts such as variable, equation, inequality, solution set, and graph. Students will strengthen their ability to perform operations with real numbers. The student is also introduced to the concepts of relation and function. Students must receive a passing grade at semester to continue into 2nd semester. Students completing this course with a “C” or better will be prepared to enroll in Algebra 2.

**409 Algebra 2**

**2 credits Year Long**

**Grades 9-12 Prerequisite: Algebra 1**

After a very brief review of the concepts of Algebra 1, these very same fields are broadened and elaborated on such as: proofs, logic, and basic equation solving. Many new concepts are introduced such as: the arithmetic and geometric sequences and series, careful study of linear sentences, the quadratic formula, the number system is enlarged to include the complex number system, and the exponential and logarithmic functions and computation. Students must receive a passing grade at semester to continue into 2nd semester.

**412 Geometry**

**2 credits Year Long**

**Grades 10-12 Prerequisite: Algebra 1**

Students will explore Geometry by using a discovery approach. Working on their own and in small groups, students will investigate, construct, observe patterns, measure figures and discuss their findings to formulate their own definitions and conjectures. Students must receive a passing grade at semester to continue into 2nd semester.

**424 Pre-Calculus**

**2 credits Year Long**

**Grade 11-12 Prerequisite: grade of “B” or better in Algebra 2 & Geometry.**

**Must have instructor approval for students complete regular Algebra 2 or Geometry.**

The primary purpose of this math course is twofold:

1) to broaden the mathematical horizons of the student, and

2) to prepare the student for more advanced work in college. The major emphasis of the course is the examination of functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions. Additional topics are in: system of equations, matrices and determinants, analytic geometry, sequences and probability, conics and polar coordinates, trigonometry, and vectors. There will be a chapter on limits and an introduction to calculus for college bound students. Students must receive a passing grade at semester to continue into 2nd semester. **Student is required to have a graphing calculator.**

**425 AP Calculus**

**2 credits Year Long**

**Grades 11-12 Prerequisite: Algebra 1, Algebra 2, Geometry, Pre- Calculus**

Calculus is a rigorous course primarily concerned with developing students’ understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes limits, derivative, differentiation, the differential elementary applications of calculus and introduction to integration. **This course requires a graphing calculator.** (The TI-89 and TI-92 are not recommended).

**428 AP Statistics**

**2 credit Year Long**

**Grades 11-12 Prerequisite: Alg. 1, Alg. 2, & Geometry**

Topics include: Statistical Descriptions, Probability, Discrete Probability Distributions, Normal Probability Distributions, Confidence Intervals, Hypothesis Testing and Correlation, Regression, Exploring Data, Statistical Inference, Anticipating Patterns, Sampling and Experimentation.

**434 Technical Math**

**2 credits Year Long**

**Grade 11-12 Prerequisite: Algebra 1, Geometry**

This course is intended for students entering a trade or technical program. The major emphasis of the course is to prepare students with the math skills necessary for a career in a vocational field. Topics of study will include measurement, decimals/fractions, basic statistics, ratios and proportions, and graphs and charts.

Physical Education

The Iowa Department of Education requires a student to successfully complete a course in Physical Education for each year he/she is enrolled in school. Students are required to complete a Physical Education class during one semester each year. All classes will meet every other day during each semester. Any student may take additional Physical Education class for elective credit.

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Scope and Sequence

4 Credits Required

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| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| Performance Physical Education  Total Fitness  Lifetime Fitness | Performance Physical Education  Total Fitness  Lifetime Fitness | Performance Physical Education  Total Fitness  Lifetime Fitness | Performance Physical Education  Total Fitness  Lifetime Fitness |

**610 PERFORMANCE PHYSICAL EDUCATION One Semester Yr: 9, 10, 11, 12**

**Prerequisite: None 1 credit**

This course emphasizes working large muscle groups with a rigorous free weight Olympic lifting program for competitive athletes. Each student will have an individualized computer program. This class is designed for students who are serious about improving their strength and conditioning. Students will be required to complete the fitness testing including the mile run.

**620 TOTAL FITNESS One Semester Yr: 9, 10, 11, 12**

**Prerequisite: None 1 credit**

This course will focus on total fitness. Students will gain an understanding of what it means to be physically fit. Each student will develop his/her own personal fitness program based on individual goals. Topics that will be covered in the class are circuit training, resting and target heart rate, aerobic training, stability ball, core training and fitness activities. This course will also cover nutrition and weight management. Students will be required to complete fitness testing including the mile run. A variety of off campus activities may be offered at a minimal fee.

**622 LIFETIME FITNESS ACTIVITIES One Semester Yr: 9, 10, 11, 12**

**Prerequisite: None 1 credit**

This course will provide the students with opportunities to develop an individual optimal level of physical fitness. A variety of team activities will be offered, but the emphasis will be on fitness activities. Students will be required to complete fitness testing including the mile run.

Science

Science is a constantly changing way of thinking, a systematic process for producing the knowledge necessary to comprehend the natural world. Science includes observation and data collection, as well as the manipulation, evaluation, and interpretation of that data. The study of science focuses on critical thinking and logical reasoning. The Anamosa High School science program facilitates these processes through lab-intensive environments, including extensive use of technology, that emphasize inquiry and experimentation rather than memorization.

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Scope and Sequence

6 Credits Required

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| **Physical Science** | Physical Science  **Biology**  Chemistry  Principles of Technology | Physical Science  Biology  Chemistry  Principles of Technology  Forensic Science  Anatomy & Physiology  Astronomy | Physical Science  Biology  Chemistry  Physics  Principles of Technology  Forensic Science  Anatomy & Physiology  Astronomy |

**515/516 Anatomy & Physiology**

**2 credits Year Long**

**Grades 11-12 Prerequisite: Biology & Chemistry**

This course focuses upon the structure, function, growth, and development of the organ systems of the human body. The process of science is stressed through the use of student projects, laboratory activities, and group discussion. This course requires the student to participate in laboratory dissection.

**502 Astronomy**

**1 credit 1 Semester**

**Grades 11-12 or Instructor Approval Prerequisite: 1 high school science course**

This course introduces students to the composition and structure of the universe. The course will provide an in-depth study of the universe and the conditions, properties, and motions of bodies in space. Topics include, but are not limited to: electromagnetic radiation, celestial motion, gravity and orbital motion, properties of the Sun, star formation/structure/characteristics, galaxies, and cosmology.

**504/505 Biology (REQUIRED)**

**2 credits Year Long**

**Grades 10 Prerequisite: Earth Science**

This course is designed to provide a basic understanding of the characteristics and requirements of living things, cellular structure and function, including the basic processes of metabolism and reproduction, and the gradual changes in living things and the environments in which they dwell over time, leading to the vast diversity of life and ecosystems on the earth.

**510/511 Chemistry**

**2 credits Year Long**

**Grades 10-12 Prerequisite: taking or have taken Algebra 1**

This class is intended to prepare students for first year college chemistry. Considerable emphasis is put on problem solving. Students explore the fundamental principles of chemistry, which characterize the properties of matter and how it reacts. Computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry.

**500/501 Physical Science (REQUIRED)**

**2 credits Year Long**

**Grade 9 Prerequisite: None**

Physical Science provides a general overview of chemistry and physics concepts and principles. In this lab-oriented course, the learner will strengthen laboratory and critical thinking skills through interpretation and use of scientific methods. Problem solving and communication skills will be further developed as the learner investigates real life situations.

**512 Forensic Science**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: Biology**

This course examines key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, and physical and trace evidence. Through virtual and hands-on labs and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions. All students will develop solid methods of problem solving, collaboration, and proper field and laboratory technique.

**508/509 Physics**

**2 credits Year Long**

**Grade 12 Prerequisite: Taking or have taken Algebra 1 & Algebra II**

This class is intended to prepare students for first year college physics. Considerable emphasis is put on problem solving. Students explore the fundamental principles of physics, which characterize the basic physical laws of our world. Computer-based and traditional laboratory techniques are use to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include, but are not limited to: forces and motion, Newton’s Laws, energy, thermodynamics, waves (sound and light), optics, electricity, and magnetism.

**316/317 Principles of Technology**

**2 credits Year Long**

**Grades 10-12 Prerequisite: Algebra I**

This is an “Applied” Physics course. Any student who wishes to pursue any form of postsecondary education will benefit from this course. It blends an understanding of basic illustrations of practical applications. It will give you a firm foundation for understanding today’s and tomorrow’s technology. Students can take the course as either an elective or as a science credit. This course may be taken in sequence with Physics for a 2nd year of science credit. The topics covered are: force, work, rate, resistance, energy, power, and force transformers. In each of these seven units, the topic will be covered as related to mechanical, electrical, fluid and thermal systems. Because technology is changing the way we live, work, and play, we need to keep current and understand it, if we are to control it and use it to our advantage.

***The courses listed below may also be used as science graduation credit:***

050 Introduction to Agriculture, Food & Natural Resources

056 Plant Science

078 Animal Science

072 Horticulture

66 Vet Technology

**Course descriptions for the above may be found in the Agriculture, Food and Natural Resources section of this booklet.**

Social Studies

In order to prepare students for life in the 21st century, the Social Studies department has designed courses to give students a strong base of knowledge and skills. Emphasis is placed on the developing of rigorous academic skills with process skills: retrieving information, organization and analyzing data, written and oral communication, and working effectively as individuals and in groups. Six credits are required along with several elective credits that students will find interesting and challenging.

|  |
| --- |
|  |

Scope and Sequence

6 Credits Required in **Bold**

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
| **World History**  Geography | World History  Geography  **US History**  AP US History  Psychology  Sociology | World History  Geography  US History  AP US History  **Government**  **AP Government**  **Economics**  Psychology  Sociology  Modern Issues | World History  Geography  US History  AP History  **Government**  **AP Government**  **Economics**  Psychology  Sociology  Modern Issues |

**552/553 World History** **(REQUIRED)**

**2 credits Year Long**

**Grades 9-10 Prerequisite: None**

World History is a required social studies course, which is usually completed during the freshman year.  In World History, the student will have the opportunity to become proficient in Iowa Social Studies Skill Standards including analyzing change, continuity and context, causation, argumentation, perspective, and engaging with historical sources and evidence.  Iowa Social Studies Content anchors that will be covered include identity, power and politics, work, exchange, and technology, people and ideas, environment and geography, international relations, and Iowa history.  Also, the student will develop historical inquiry skills.

**550/551 U.S. History** **(REQUIRED)**

**2 credits Year Long (REQUIRED)**

**Grades 10-12 Prerequisite: None**

United States History is a required course, which is usually completed during the sophomore year.  United States History will include both historical thinking standards and content specific standards. The historical thinking anchor standards include, analyzing continuity, change, and context; examining perspectives; engaging with historical sources and evidence; and describe causation and argumentation. The themes include: identity, power and politics; work, exchange, and technology; people and ideas; environment and geography; and international relations and Iowa History.

**578 AP U.S. History**

**2 credits Year Long**

**Grade 11-12 Prerequisite: World History/Instructor Approval**

AP United States History provides college level work and a chance to earn college credit in High School. An exam is administered in May to determine amount of credit, but students may take the course without taking the exam if no college credit is desired. AP United States History is a course designed to be equivalent of a two-semester college history class usually taken during their first year. It will include topics regularly covered in a college United States History course. It differs significantly from the usual high school history course with respect to the kind of textbook used, the range and depth of topics covered, and the time and effort required. A weighted scale will be used for all AP courses: A=5, B=4, C=3, D=2, F=0.

**564 Government (REQUIRED)**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: U.S. History & World History**

Productive civic engagement in the U.S. context, requires knowledge of the historical foundations and principles of American democracy; understanding the unique processes of local, state and national institutions; and the skills necessary to apply civic dispositions and democratic principles.  Government will provide students will the knowledge and skills to analyze civic and political institutions; apply civic dispositions and democratic principles; and interpret processes, rules and laws.

**AP US Government.**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: U.S. History & World History**

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

**554 Economics (REQUIRED)**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: Government**

Economics is grounded in knowledge about how people choose to use resources. Decision making within economics involves setting goals and identifying the resources available to achieving those goals. This class provides students with the concepts and tools necessary for an economic way of thinking and helps students understand the interaction of buyers and sellers in markets, workings of the national economy, and interactions within the global marketplace.

**556 Modern Issues**

**1 credit 1 Semester**

**Grades 11-12 Prerequisite: None**

Modern Issues examines current events, foreign and domestic policy issues, immigration, terrorism and the United States role in a changing world.

**562 Psychology**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

This course looks at individual human behavior. This class will study identity and personality; learning, structures of the brain and nervous system; altered states of consciousness, mental illness and therapy. By understanding psychology we can become aware of the value of our relationships to others and gain knowledge of ourselves at a deeper level.

**563 Sociology**

**1 credit 1 Semester**

**Grades 10-12 Prerequisite: None**

Sociology is the study of human society. We will study culture and social structures; social inequality; social institutions and social change. As a part of this study we will look at inequalities of race and ethnicity as well as gender and age. We will discuss deviance and social control.

**Geography**

**1 credit 1 Semester**

**Grades 9-12 Prerequisite: None**

Geography covers the human and physical characteristics of the Earth and how people interact with the environment. Students will gain an understanding of how resource availability, economics, politics, culture, and the environment influence human migration and settlement. Through the use of multiple geographic tools, students will also develop the ability to practice geography (i.e., use of geographic tools, mapping, etc.) Geography is critical for framing contemporary issues and solving problems in both a local and global context. Students will create geographic representations, evaluate human environment interaction, analyze human population movement and patterns, and analyze global interconnections.

Other Programs - Electives unless specified

**651-654 Directed Studies/Resource Teacher Program**

**2 Credits Year Long**

**Grades 9 – 12 Prerequisite: Student staffing required**

Students who have been staffed into the program will spend a designated number of minutes per day as listed below by age group. Instruction will be done in study skills, organizational skills, note taking, test taking, independent study skills, learning strategies, behavior, job skills, and social skills. A full credit per block or one-half credit per skinny will be given for each term.

**640 SCI Program**

**2 Credits Year Long**

**Grades 9 – 12 Prerequisite: Student staffing required**

Students who have been staffed into the program will spend a designated number of minutes per day as required by individual’s IEP and needs. Instruction will be done in study skills, organizational skills, note taking, test taking, independent study skills, learning strategies, behavior, job skills, and social skills. Individualized and group instruction will be done in a variety of academic subjects such as: math, English, science, social studies, career education, life skills, and job experience. All SCI students need to complete at least two Career Ed. classes and one non-paid Job Experience and/or Job Search Project.

SCI students need to complete one of the following options:

1) AHS Academic Requirements

2) Completion of IEP Goals.

**641 Behavior Disabilities (BD) Program**

**2 Credits Year Long**

**Grades 9 – 12 Prerequisite: Student staffing required**

The BD program is designed to meet the needs/challenges of each student on an individual basis, based on the student’s IEP and/or other behavioral goals. Students who have been staffed into the program will spend a designated number of minutes/month in the Behavior Management classroom as indicated on their individual IEP. Students will be monitored in the general education and behavior classrooms based on a behavior rubric that has been individualized for each student based on their goals listed on their IEP. Each student will attend general education classes outside the BD room with supports in place to meet the individual needs of that student. The Child Study Team will determine what setting is most appropriate. Instruction will be done in study skills, organizational skills, note taking, test taking, independent study skills, learning strategies, behavior, job skills, and social skills. Individualized and group instruction may be done in a variety of academic subjects such as: math, English, science, social studies, career education, life skills, job experience, behavior modifications, and self-advocacy skills..

BD students need to complete one of the following options:

1) AHS Academic Requirements

2) Completion of IEP Goals

**Driver Education**

TWO SESSIONS OF DRIVER EDUCATION CLASSES ARE AVAILABLE DURING THE SUMMER. DETAILS AVAILABLE IN THE HIGH SCHOOL OFFICE.

***No high school credit is awarded for Driver Education.***

**Grade 8-12 Prerequisite: None**

The minimum program for an approved driver education course shall consist of thirty (30) clock hours of classroom instruction and six (6) clock hours of driving instruction.

The course requirements consist of the following:

1. The student must be 14 years of age or older by the starting date of the session for which the student is enrolled.

2. The student must have an “Instruction Permit” – this is issued to you after you have passed the written and vision tests as administered by the D.O.T. (Department of Transportation) Driver’s License Division. You must have this permit in your possession when driving in the “Driver Education Program”. Complete details are available in the “Iowa Driver Manual”.

**690 ELP Projects**

**Credit determined by project 1 Term**

**Grades 9-12 Prerequisite: Consent of Instructor**

This course is designed for those students with aptitude and interest in a particular field whose needs are not/cannot be met in the regular classroom. It is based upon the George Betts’ Autonomous Learner Model of the self-motivated, life-long learner. The student will design and pursue his/her own course of study with the approval and regular guidance of the instructor. Both student and instructor evaluate goal setting, resource use, time management, journaling, and final product(s).

**644 Work Experience**

**1 credit per semester 1 Semester**

**Grade 12 Prerequisite: Application process**

Students will use School to Work skill development activities during class. The instructor will have direct contact with the student’s work supervisor. Employment of at least ten (10) hours per week is required. If student discontinues their employment during this course, they will receive a failing grade. Work site within Anamosa School District. Work Log/Journal will be required. Regular attendance is required. Work Experience and Internship cannot be registered for the same term. Job site approval is REQUIRED.

**680 Internship**

**2 credits per semester 1 Semester**

**Grade 11 -12 Prerequisite: Application process**

Internship is an unpaid opportunity for seniors to experience the career setting they plan to train for after high school. Internship must be arranged before the end of the school year. The student will be required to do pre- internship preparation on work skill development, meet with the instructor every two weeks, and keep a daily journal of their internship. Students are required to submit site evaluations as requested by the instructor. Journaling about experiences and insight are also required. Students will complete a final portfolio as part of the final grade. Application and interview process through Workplace Learning Connection required before assigned to internship site.

**Post Secondary Enrollment Option (PSEO)**

**Grades 11-12 Prerequisite: ITED Test Scores**

AHS students are offered the opportunity to take college level classes on several communications networks. Students interested in taking PSEO college level work must:

1) Pre-register during the pre-registration process the year before the class is to be taken.

2) Demonstrate the ability to do college level course work by scoring at the 41st percentile on the ITED test in reading, math and science or COMPASS Test scores. There is no cost for these classes (up to $250 per class) providing arrangements are completed in the guidance office. These classes are offered to any 11th or 12th grade student and 9th and 10th grade students who have participated in expanded learning programs for gifted students.

**REVIVE**

**Grades 9-12 Prerequisite:  Application process**

The REVIVE Alternative Education Program is designed to meet the academic, social, and/or emotional needs of students which hinder their progress toward high school graduation.  The REVIVE Program offers small classes on a full-time, part-time, and on class-by-class basis.  Academic classes are self-paced using Edgenuity online classes and/or North Dakota Center for Distance Education paper packets.  Students are expected to earn academic credit and participate in  class activities to earn additional elective credit.  Individual and group counseling will be provided and social/emotional skills will be taught.  Students are to conduct themselves in an appropriate manner during class and show respect to all students and staff at all times.

Arts & Science I & II

Kirkwood Jones Regional Education Center

High School Academies

Primarily offered for juniors and seniors, Career Edge Academy programs are designed to help students start exploring career options while still in high school. Offered for both high school and FREE college credit, Career Academies are groups of career-focused classes that focus on academic and technical preparation for today’s workforce. Whether students are interested in a specific technical career, or looking to pursue a college degree with a more liberal arts focus, there’s a Career Academy designed to meet both interests. Please review the options below:

Are you ready for college? Give yourself an edge over other graduating seniors by starting your college classes early. No matter what you are planning to major in, every college requires students to take a core set of arts and science offerings that are commonly referred to as “general education requirements”. College readiness will be assessed by ACT Test scores or by Kirkwood’s Compass Placement Exam. Pre-requisite coursework and qualifying placement scores are required to enroll in the academic academy courses. There are two options to choose from:

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
| **ARTS & SCIENCE I** |  | Composition I  Composition II  Introduction to Psychology  Fundamentals of Oral Communication | Composition I  Composition II  Introduction to Psychology  Fundamentals of Oral Communication |
| **ARTS & SCIENCE II** |  | U.S. History to 1877  Introduction to Ethics  Environmental Science  Social Problems | U.S. History to 1877  Introduction to Ethics  Environmental Science  Social Problems |

**Graphics and Media Communication Academy**

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Introduction to Automotive  Technology  Maintenance & Light Repair  Industrial Math I  Automotive Electricity | Introduction to Automotive  Technology  Maintenance & Light Repair  Industrial Math I  Automotive Electricity |

In this Academy, students acquire the basic skills necessary to service and maintain today’s more sophisticated automobiles. In this yearlong academy program, students will earn 12 college credits, each of which are aligned with the National Automotive Technician Education Foundation (NATEF), and the Automotive Service Excellence (ASE) standards. The following courses are included in this program:

This academy allows students to explore the cutting edge technology and software used by today’s commercial artists. Students will build on their creative foundational art skills to explore a new level of creativity and skill required of today’s graphic design professionals. Classroom lectures and projects provide hands-on opportunities to use creative design and desktop publishing software, explore layout and design fundamentals, edit images and produce outstanding digital artwork. The following courses are included in this program:

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Illustrator I  Digital Imaging  Digital Photography  Digital Layout | Illustrator I  Digital Imaging  Digital Photography  Digital Layout |

**Automotive Technology Program**

**Information Technology Academy**

**Health Science: Patient Care Academy**

Have you always been interested in helping others? If so, you may want to consider the high school health science academy program. In this college credit program, students will be introduced to the health care system, and a variety of health careers, participate in classroom, laboratory, and community clinical experiences, and study the language of medicine. Students will learn and develop the basic skills expected of a health care provider, and demonstrate the professionalism required in today’s health care field. The following courses are included in this program:

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Professionals in Health  Medical Terminology  Exploration of Healthcare  Careers  Nurse Aide | Professionals in Health  Medical Terminology  Exploration of Healthcare  Careers  Nurse Aide |

The IT Academy provides students with a jump-start to earning an associated, bachelors and/or graduate degree in customer support, computer programming, computer information systems and CISCO.

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Networking Plus  Computer Hardware Basics  Programming Concepts  Advanced PC Concepts | Networking Plus  Computer Hardware Basics  Programming Concepts  Advanced PC Concepts |



Project Lead the Way is a nationally recognized, high school pre-engineering curriculum designed to help students develop better problem solving skills by immersing them in real-world engineering challenges. The courses all use project-based, hands-on experiences to teach students the key elements and skills of engineering and technology-based careers. By completing a series of Project Lead the Way courses, students will be preparing themselves for the demanding rigor of two- year engineering technology and four-year engineering programs. The following courses are included in this program:

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Introduction to Engineering Design™  Principles of Engineering | Introduction to Engineering Design™  Principles of Engineering |

This program provides entry-level skills and knowledge for students who want to pursue one of the many careers available in the construction industry. It would best benefit juniors as a preparation for the “build a house” course in their senior year. A second pathway would be to take it at any time in preparation for transfer into a number of programs like Construction Management, Architectural Technology, Carpentry, Masonry, Plumbing, HVAC and more.

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Architectural Plans & Specs  Residential Construction Lab  Civil Engineering & Architecture  Construction Modeling  Construction Project | Architectural Plans & Specs  Residential Construction Lab  Civil Engineering & Architecture  Construction Modeling  Construction Project |

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | Introduction to Engineering Design™  Principles of Engineering | Introduction to Engineering Design™  Principles of Engineering |
| 9th | 10th | 11th | 12th |
|  |  | Introduction to Engineering Design™  Principles of Engineering | Introduction to Engineering Design™  Principles of Engineering |
| 9th | 10th | 11th | 12th |
|  |  | CNC Mill Operator  CNC Lathe Operator  Manual Press Brake Operations  Welding  Intro to Welding  Gas Metal Arc short Circuit Transfer Welding  Gas Metal Arc Spray Transfer  Gas Tungsten Arc Welding  Virtual Reality Info | CNC Mill Operator  CNC Lathe Operator  Manual Press Brake Operations  Welding  Intro to Welding  Gas Metal Arc short Circuit Transfer Welding  Gas Metal Arc Spray Transfer  Gas Tungsten Arc Welding  Virtual Reality Info |
| 9th | 10th | 11th | 12th |
|  |  | CNC Mill Operator  CNC Lathe Operator  Manual Press Brake Operations  Welding  Intro to Welding  Gas Metal Arc short Circuit Transfer Welding  Gas Metal Arc Spray Transfer  Gas Tungsten Arc Welding  Virtual Reality Info | CNC Mill Operator  CNC Lathe Operator  Manual Press Brake Operations  Welding  Intro to Welding  Gas Metal Arc short Circuit Transfer Welding  Gas Metal Arc Spray Transfer  Gas Tungsten Arc Welding  Virtual Reality Info |

**ACE : Architectural Construction & Engineering Academy**

**Engineering: Project Lead the Way Academy**

**Advanced Manufacturing & Welding Academy**

The Advanced Manufacturing Academy can lead to certificates, diplomas, associates, bachelors and graduate degrees in CAD/Mechanical Engineering, CNC Machining, Welding, Manufacturing, and Industrial Engineering.

* AutoCAD for Applied Engineering
* CNC Mill Operator
* CNC Lathe Operator
* Manual Press Brake Operations
* Introduction to Computers (Pre-/co-requisite for Adv. Manu. Academy, offered as a companion course)

|  |  |  |  |
| --- | --- | --- | --- |
| 9th | 10th | 11th | 12th |
|  |  | CNC Mill Operator  CNC Lathe Operator  Manual Press Brake Operations  Welding  Intro to Welding  Gas Metal Arc short Circuit Transfer Welding  Gas Metal Arc Spray Transfer  Gas Tungsten Arc Welding  Virtual Reality Info | CNC Mill Operator  CNC Lathe Operator  Manual Press Brake Operations  Welding  Intro to Welding  Gas Metal Arc short Circuit Transfer Welding  Gas Metal Arc Spray Transfer  Gas Tungsten Arc Welding  Virtual Reality Info |

**Emergency Medical Services: EMT Academy**

The goal of the Hotel Management Academy is to prepare students for entry-level positions in front-of-house operations within the hospitality industry. Successful completion of the Hotel Management Academy will set students on a career path that encompasses all aspects of hotel operations, including food and beverage management. Students in this Academy will learn about the day-to-day operations of a lodging facility and the wide range of career options that exist within the hospitality industry, many of which are based upon the fundamental principles of business, marketing, and personnel management.

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
|  |  | Introduction to Lodging Operations  Hospitality Marketing  Sanitation & Safety  Nutrition  Menu Planning | Introduction to Lodging Operations  Hospitality Marketing  Sanitation & Safety  Nutrition  Menu Planning |

The Kirkwood Emergency Medical Technician Academy Program can lead students to college certificates such as diplomas, associates, bachelors, and graduate degrees. Examples of college majors include, but are not limited to: EMT, Paramedic, Nursing, Pre-Med.

|  |  |  |  |
| --- | --- | --- | --- |
| **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
|  |  | Exploration of Healthcare Careers  Medical Terminology  Emergency Medical Technician I  Emergency Medical Technician II  Emergency Medical Technician II Clinical | Exploration of Healthcare Careers  Medical Terminology  Emergency Medical Technician I  Emergency Medical Technician II  Emergency Medical Technician II Clinical |



**Hospitality Management Academy**